

ABSTRACT

A drive piston (11) is inserted into a housing (8) vertically movably. A pull rod (18) is projected further upward than a support surface (S) of the housing (8), and the pull rod (18) is connected to the drive piston (11) radially movably.

5 An inner engaging member (38) is supported on an outer periphery of the pull rod (18) vertically movably. The inner engaging member (38) is adapted to be radially movable with respect to the housing (8), and the inner engaging member (38) is advanced upward by a coned disc spring (41). A plurality of outer engaging members (39) to be inserted into an engaging hole (3) of a work pallet

10 (2) are arranged on an outer periphery of the inner engaging member (38). The plurality of outer engaging members (39) are wedge-engaged with the inner engaging member (38) from the upper side. To these outer engaging members (39) is joined an upper portion of the pull rod (18). The plurality of outer engaging members (39) are urged radially inward by a ring-shaped flat spring

15 (44).